
2. Cheese Party

Program Name: Cheese.java Input File: cheese.dat

Jonathan has organized a cheese tasting party and invited six of his cheese loving friends to bring two of their favorite cheeses to share. He has also developed a list of secret words having to do with cheese. Each time one of his guests says one of the secret words, conversation is stopped and the guest is allowed one roll of two standard 6 sided dice with numbers 1-6 on the sides of each die. The guest that rolls the dice will receive the total number points indicated on the dice. At the end of the night, the guest with the largest number of points will win the door prize – a chunk of Jonathan's favorite cheese. Jonathan wants you to write a simulation that will help him get a feel for the outcome of his little game.

For each simulation, you will need to construct one object of the type `java.util.Random`. This class allows you to specify the seed for the random number generator. For a given seed, the order of the random numbers is always the same.

For each simulation, you will need to generate three random numbers for each secret word uttered:

- The first random number `r1` will stand for a letter between A and F, inclusive, and will represent each of his six guests. This guest will roll the dice and receive points.
- The second and third random numbers `r2` and `r3` will each be a number between 1 and 6 inclusive and will determine the results of the roll of the two dice.

Input

The first line of input will contain a single integer `n` that indicates the number of simulations to follow. Each of the following `n` lines will contain a positive `long` that will be the seed for the random object in the simulation, followed by a space and an integer indicating the number of secret words that will be uttered.

Output

For each simulation, you will print each of the guests, A through F, and the number of points each received.

Example Input File

```
2
123543225422 20
546745453 25
```

Example Output to Screen (Note: Alternate sets of output are bolded for ease of reading.)

```
A 23
B 39
C 0
D 35
E 26
F 21
A 24
B 37
C 15
D 16
E 45
F 27
```

Random numbers generated:

```
123543225422
1 5 2 5 3 4 5 6 5 4 1 2 1 1 5 1 3 5 3 1 3 4 6 6 3 6 3 1 5 5 0 1 2 5 2 1 3 3 4
3 6 4 4 5 6 3 3 2 0 1 1 0 5 5 1 5 3 0 3 5
546745453
0 2 3 4 5 3 3 1 1 5 5 6 0 3 5 1 2 5 3 2 5 4 6 2 1 5 3 5 2 5 0 3 2 4 3 4 4 4 4
1 3 1 5 1 1 2 2 6 1 1 2 1 3 6 4 1 6 3 1 6 4 5 2 0 2 4 5 2 5 2 3 4 1 4 2
```